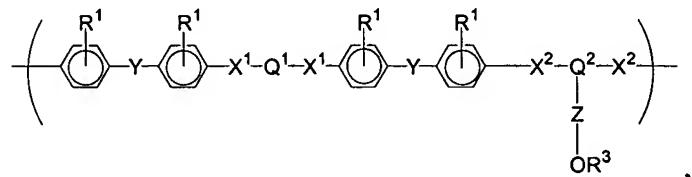


## **WHAT IS CLAIMED IS:**

- 1    1. A process comprising: providing a polymer blend including a luminescent polymer and a  
2        second polymer, wherein at least one of the polymers is crosslinkable and b)  
3        crosslinking the crosslinkable polymer.
- 1    2. The process of Claim 1, wherein the second polymer is crosslinkable.
- 1    3. The process of Claim 1, wherein the luminescent polymer is crosslinkable.
- 1    4. The process of Claim 1, wherein both the luminescent polymer and the second polymer  
2        are crosslinkable.
- 1    5. The process of Claim 1, wherein the polymer that is luminescent comprises a  
2        polyfluorene, a polyphenylenevinylene, or a polybiphenyl.
- 1    6. The process of Claim 5, wherein the polymer that is luminescent further comprises a  
2        charge transporter.
- 1    7. The process of Claim 6, wherein the charge transporter comprises a triarylamine, a  
2        carbazole, a 2,3-diphenylquinoxaline, or a 1,3,4-oxadiazole.
- 1    8. The process of Claim 1, wherein the crosslinkable polymer comprises units having the  
2        formula



wherein:

5  $Q^1$  comprises at least one aryl or heteroaryl group;

6  $Q^2$  comprises at least one aryl or heteroaryl group;

7                    $X^1$  is O bonded directly to an aryl carbon of  $Q^1$ ;

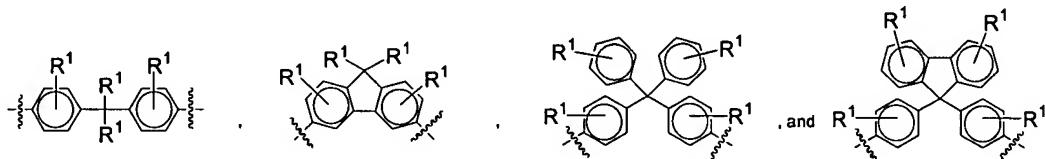
8  $X^2$  is O bonded directly to an aryl carbon of  $O^2$ ;

9 Z is a linker comprising at least one  $-(C(R^2)_2)-$  group;

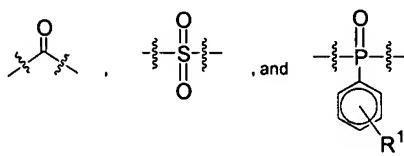
10 Y is a single bond or a linker group;

11                   R<sup>1</sup> is independently at each occurrence H, a halogen, an alkyl group, a  
 12                   heteroalkyl group, an aryl group, or a heteroaryl group;  
 13                   R<sup>2</sup> is independently at each occurrence H, an alkyl group, or a heteroalkyl group;  
 14                   and  
 15                   R<sup>3</sup> is H or a crosslinkable group.

1           9. The process of Claim 8, wherein Q<sup>1</sup> comprises at least two aryl or heteroaryl groups.  
 1           10. The process of Claim 9, wherein Q<sup>1</sup> comprises a methylenediphenyl group in which the  
 2                   methylene carbon is bonded to at least 2 phenyl groups.  
 1           11. The process of Claim 10, wherein Q<sup>1</sup> is selected from the group consisting of

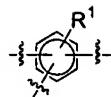


1           12. The process of Claim 8, wherein Q<sup>1</sup> comprises a polycyclic aromatic ring system or a  
 2                   polycyclic heteroaromatic ring system.  
 1           13. The process of Claim 8, wherein Y is a single bond, an alkene or an alkyne group.  
 1           14. The process of Claim 8, wherein Y is a ketone, a sulfone, or a phosphine oxide group.  
 1           15. The process of Claim 14, wherein Y is selected from the group consisting of



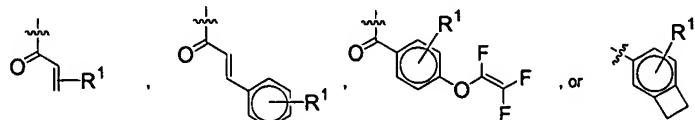
1           16. The process of Claim 8, wherein Q<sup>2</sup> comprises a 6-membered aromatic or  
 2                   heteroaromatic ring, a polycyclic aromatic ring system, or a polycyclic heteroaromatic  
 3                   ring system.

1 17. The process of Claim 16, wherein Q<sup>2</sup> comprises



1 18. The process of Claim 8, wherein Z is -(CH<sub>2</sub>)<sub>n</sub>- or -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>-, wherein n = 1 to 10.

1 19. The process of Claim 8, wherein R<sup>3</sup> is selected from the group consisting of



3 20. The process of Claim 8, wherein:

4 Q<sup>1</sup> comprises a methylenediphenyl group in which the methylene carbon is  
5 bonded to at least two phenyl groups;

6 Q<sup>2</sup> comprises a phenyl ring;

7 Y is a single bond;

8 and

9 Z is -CH<sub>2</sub>-

1 21. The process of Claim 20, wherein R<sup>1</sup> is fluorine.

1 22. The process of Claim 20, wherein R<sup>3</sup> comprises an aryl trifluorovinyl ether.

1 23. The process of Claim 1, wherein crosslinking is effected thermally, chemically, or  
2 photochemically.

1 24. The process of Claim 23, wherein the crosslinking is effected photochemically.